



DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. FAA-2023-1706; Project Identifier MCAI-2023-00039-T]

RIN 2120-AA64

Airworthiness Directives; Bombardier, Inc., Airplanes

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Notice of proposed rulemaking (NPRM).

SUMMARY: The FAA proposes to adopt a new airworthiness directive (AD) for certain Bombardier, Inc., Model BD-700-1A10 and BD-700-1A11 airplanes. This proposed AD was prompted by reports that the nose wheel steering selector valve (SSV) can be slow to deactivate under low temperature conditions. This proposed AD would require replacing the affected SSV with a re-designed SSV that has an improved response time. The FAA is proposing this AD to address the unsafe condition on these products.

DATES: The FAA must receive comments on this proposed AD by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: You may send comments, using the procedures found in 14 CFR 11.43 and 11.45, by any of the following methods:

- Federal eRulemaking Portal: Go to [regulations.gov](https://www.regulations.gov). Follow the instructions for submitting comments.

- Fax: 202-493-2251.

- Mail: U.S. Department of Transportation, Docket Operations, M-30, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, DC 20590.

- Hand Delivery: Deliver to Mail address above between 9 a.m. and 5 p.m.,

Monday through Friday, except Federal holidays.

AD Docket: You may examine the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2023-1706; or in person at Docket Operations between 9 a.m. and 5 p.m., Monday through Friday, except Federal holidays. The AD docket contains this NPRM, the mandatory continuing airworthiness information (MCAI), any comments received, and other information. The street address for Docket Operations is listed above.

Material Incorporated by Reference:

- For Bombardier, Inc., service information identified in this NPRM, contact Bombardier Business Aircraft Customer Response Center, 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514-855-2999; email ac.yul@aero.bombardier.com; website [bombardier.com](https://www.bombardier.com).

- You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

FOR FURTHER INFORMATION CONTACT: Chirayu Gupta, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; email 9-avs-nyaco-cos@faa.gov.

SUPPLEMENTARY INFORMATION:

Comments Invited

The FAA invites you to send any written relevant data, views, or arguments about this proposal. Send your comments to an address listed under ADDRESSES. Include “Docket No. FAA-2023-1706; Project Identifier MCAI-2023-00039-T” at the beginning of your comments. The most helpful comments reference a specific portion of the proposal, explain the reason for any recommended change, and include supporting data. The FAA will consider all comments received by the closing date and may amend the proposal because of those comments.

Except for Confidential Business Information (CBI) as described in the following paragraph, and other information as described in 14 CFR 11.35, the FAA will post all comments received, without change, to regulations.gov, including any personal information you provide. The agency will also post a report summarizing each substantive verbal contact received about this NPRM.

Confidential Business Information

CBI is commercial or financial information that is both customarily and actually treated as private by its owner. Under the Freedom of Information Act (FOIA) (5 U.S.C. 552), CBI is exempt from public disclosure. If your comments responsive to this NPRM contain commercial or financial information that is customarily treated as private, that you actually treat as private, and that is relevant or responsive to this NPRM, it is important that you clearly designate the submitted comments as CBI. Please mark each page of your submission containing CBI as “PROPIN.” The FAA will treat such marked submissions as confidential under the FOIA, and they will not be placed in the public docket of this NPRM. Submissions containing CBI should be sent to Chirayu Gupta, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-228-7300; email 9-avs-nyaco-cos@faa.gov. Any commentary that the FAA receives which is not specifically designated as CBI will be placed in the public docket for this rulemaking.

Background

Transport Canada, which is the aviation authority for Canada, has issued Transport Canada AD CF-2023-02, dated January 11, 2023 (TC AD CF-2023-02) (also referred to after this as the MCAI), to correct an unsafe condition on certain Bombardier, Inc., Model BD-700-1A10 and BD-700-1A11 airplanes. The MCAI states that following a runway excursion on a different model, an investigation revealed that the nose wheel SSV can be slow to deactivate under low temperature conditions. A similar SSV is

installed on the airplanes to which this AD is applicable. In the event of an uncommanded steering input, a slow SSV deactivation could lead to a delayed transition to free caster mode and result in an aircraft runway excursion.

The FAA is proposing this AD to address the unsafe condition on these products.

You may examine the MCAI in the AD docket at [regulations.gov](https://www.regulations.gov) under Docket No. FAA-2023-1706.

Related Service Information under 1 CFR Part 51

The FAA reviewed the following Bombardier service information.

- Service Bulletin 700-32-044, Revision 01, dated December 7, 2022.
- Service Bulletin 700-32-6021, Revision 01, dated December 7, 2022.
- Service Bulletin 700-32-6507, Revision 01, dated December 7, 2022.
- Service Bulletin 700-1A11-32-031, Revision 01, dated December 7, 2022.
- Service Bulletin 700-32-5021, Revision 01, dated December 7, 2022.
- Service Bulletin 700-32-5507, Revision 01, dated December 7, 2022.

This service information specifies procedures for replacing the affected SSV with a re-designed SSV. These documents are distinct since they apply to different airplane configurations. This service information is reasonably available because the interested parties have access to it through their normal course of business or by the means identified in the ADDRESSES section.

FAA's Determination

This product has been approved by the aviation authority of another country, and is approved for operation in the United States. Pursuant to the FAA's bilateral agreement with this State of Design Authority, it has notified the FAA of the unsafe condition described in the MCAI and service information referenced above. The FAA is issuing this NPRM after determining that the unsafe condition described previously is likely to exist or develop on other products of the same type design.

Proposed AD Requirements in this NPRM

This proposed AD would require accomplishing the actions specified in the service information already described.

Costs of Compliance

The FAA estimates that this AD, if adopted as proposed, would affect 442 airplanes of U.S. registry. The FAA estimates the following costs to comply with this proposed AD:

Estimated costs for required actions

Labor cost	Parts cost	Cost per product	Cost on U.S. operators
4 work-hours X \$85 per hour = \$340	\$5,542	\$5,882	Up to \$2,599,844

The FAA has included all known costs in its cost estimate. According to the manufacturer, however, some or all of the costs of this proposed AD may be covered under warranty, thereby reducing the cost impact on affected operators.

Authority for this Rulemaking

Title 49 of the United States Code specifies the FAA's authority to issue rules on aviation safety. Subtitle I, section 106, describes the authority of the FAA Administrator. Subtitle VII: Aviation Programs, describes in more detail the scope of the Agency's authority.

The FAA is issuing this rulemaking under the authority described in Subtitle VII, Part A, Subpart III, Section 44701: General requirements. Under that section, Congress charges the FAA with promoting safe flight of civil aircraft in air commerce by prescribing regulations for practices, methods, and procedures the Administrator finds necessary for safety in air commerce. This regulation is within the scope of that authority because it addresses an unsafe condition that is likely to exist or develop on products identified in this rulemaking action.

Regulatory Findings

The FAA determined that this proposed AD would not have federalism implications under Executive Order 13132. This proposed AD would not have a substantial direct effect on the States, on the relationship between the national Government and the States, or on the distribution of power and responsibilities among the various levels of government.

For the reasons discussed above, I certify this proposed regulation:

- (1) Is not a “significant regulatory action” under Executive Order 12866,
- (2) Would not affect intrastate aviation in Alaska, and
- (3) Would not have a significant economic impact, positive or negative, on a substantial number of small entities under the criteria of the Regulatory Flexibility Act.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

The Proposed Amendment

Accordingly, under the authority delegated to me by the Administrator, the FAA proposes to amend 14 CFR part 39 as follows:

PART 39 - AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. The FAA amends § 39.13 by adding the following new airworthiness directive:

Bombardier, Inc.: Docket No. FAA-2023-1706; Project Identifier

MCAI-2023-00039-T.

(a) Comments Due Date

The FAA must receive comments on this airworthiness directive (AD) by [INSERT DATE 45 DAYS AFTER DATE OF PUBLICATION IN THE FEDERAL REGISTER].

(b) Affected ADs

None.

(c) Applicability

This AD applies to the Bombardier, Inc., airplanes, certificated in any category, identified in paragraphs (c)(1) through (6) of this AD.

(1) Model BD-700-1A10 airplanes, as identified in Bombardier Service Bulletin 700-32-044, Revision 01, dated December 7, 2022.

(2) Model BD-700-1A10 airplanes, as identified in Bombardier Service Bulletin 700-32-6021, Revision 01, dated December 7, 2022.

(3) Model BD-700-1A10 airplanes, as identified in Bombardier Service Bulletin 700-32-6507, Revision 01, dated December 7, 2022.

(4) Model BD-700-1A11 airplanes, as identified in Bombardier Service Bulletin 700-1A11-32-031, Revision 01, dated December 7, 2022.

(5) Model BD-700-1A11 airplanes, as identified in Bombardier Service Bulletin 700-32-5021, Revision 01, dated December 7, 2022.

(6) Model BD-700-1A11 airplanes, as identified in Bombardier Service Bulletin 700-32-5507, Revision 01, dated December 7, 2022.

(d) Subject

Air Transport Association (ATA) of America Code 32, Landing gear.

(e) Unsafe Condition

This AD was prompted by reports that the nose wheel steering selector valve (SSV) can be slow to deactivate under low temperature conditions. The FAA is issuing

this AD to address a possible delayed transition to free caster mode in the event of an uncommanded steering input. The unsafe condition, if not addressed, could result in an aircraft runway excursion.

(f) Compliance

Comply with this AD within the compliance times specified, unless already done.

(g) Required Action

Within 66 months or 3,200 flight hours, whichever occurs first after the effective date of this AD: Replace SSV part number (P/N) 23600-101 with SSV P/N 23600-103 in accordance with the Accomplishment Instructions of the applicable Bombardier service bulletin listed in figure 1 to paragraph (g) of this AD.

Figure 1 to paragraph (g) – Service Bulletin References

Model	Bombardier Service Bulletin	Issue Date
BD-700-1A10	700-32-044, Revision 01	December 7, 2022
BD-700-1A10	700-32-6021, Revision 01	December 7, 2022
BD-700-1A10	700-32-6507, Revision 01	December 7, 2022
BD-700-1A11	700-1A11-32-031, Revision 01	December 7, 2022
BD-700-1A11	700-32-5021, Revision 01	December 7, 2022
BD-700-1A11	700-32-5507, Revision 01	December 7, 2022

(h) Credit for Previous Actions

This paragraph provides credit for actions required by paragraph (g) of this AD, if those actions were performed before the effective date of this AD using the applicable Bombardier service bulletin listed in figure 2 to paragraph (h) of this AD.

Figure 2 to paragraph (h) – Credit Service Bulletins

Model	Bombardier Service Bulletin	Issue Date
BD-700-1A10	700-32-044	November 24, 2022
BD-700-1A10	700-32-6021	November 24, 2022
BD-700-1A10	700-32-6507	November 24, 2022
BD-700-1A11	700-1A11-32-031	November 24, 2022

Model	Bombardier Service Bulletin	Issue Date
BD-700-1A11	700-32-5021	November 24, 2022
BD-700-1A11	700-32-5507	November 24, 2022

(i) Additional AD Provisions

The following provisions also apply to this AD:

(1) *Alternative Methods of Compliance (AMOCs)*: The Manager, International Validation Branch, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19. In accordance with 14 CFR 39.19, send your request to your principal inspector or responsible Flight Standards Office, as appropriate. If sending information directly to the manager of the International Validation Branch, mail it to ATTN: Program Manager, Continuing Operational Safety, at the address identified in paragraph (j)(2) of this AD or email to: 9-AVS-AIR-730-AMOC@faa.gov. If mailing information, also submit information by email. Before using any approved AMOC, notify your appropriate principal inspector, or lacking a principal inspector, the manager of the responsible Flight Standards Office.

(2) *Contacting the Manufacturer*: For any requirement in this AD to obtain instructions from a manufacturer, the instructions must be accomplished using a method approved by the Manager, International Validation Branch, FAA; or Transport Canada or Bombardier, Inc.'s Transport Canada Design Approval Organization (DAO). If approved by the DAO, the approval must include the DAO-authorized signature.

(j) Additional Information

(1) Refer to Transport Canada AD CF-2023-02, dated January 11, 2023, for related information. This Transport Canada AD may be found in the AD docket at regulations.gov under Docket No. FAA-2023-1706.

(2) For more information about this AD, contact Chirayu Gupta, Aviation Safety Engineer, FAA, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; telephone 516-

228-7300; email 9-avs-nyaco-cos@faa.gov.

(k) Material Incorporated by Reference

(1) The Director of the Federal Register approved the incorporation by reference (IBR) of the service information listed in this paragraph under 5 U.S.C. 552(a) and 1 CFR part 51.

(2) You must use this service information as applicable to do the actions required by this AD, unless this AD specifies otherwise.

(i) Bombardier Service Bulletin 700-32-044, Revision 01, dated December 7, 2022.

(ii) Bombardier Service Bulletin 700-32-6021, Revision 01, dated December 7, 2022.

(iii) Bombardier Service Bulletin 700-32-6507, Revision 01, dated December 7, 2022.

(iv) Bombardier Service Bulletin 700-1A11-32-031, Revision 01, dated December 7, 2022.

(v) Bombardier Service Bulletin 700-32-5021, Revision 01, dated December 7, 2022.

(vi) Bombardier Service Bulletin 700-32-5507, Revision 01, dated December 7, 2022.

(3) For service information identified in this AD, contact Bombardier Business Aircraft Customer Response Center, 400 Côte-Vertu Road West, Dorval, Québec H4S 1Y9, Canada; telephone 514-855-2999; email ac.yul@aero.bombardier.com; website bombardier.com.

(4) You may view this service information at the FAA, Airworthiness Products Section, Operational Safety Branch, 2200 South 216th St., Des Moines, WA. For information on the availability of this material at the FAA, call 206-231-3195.

(5) You may view this service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, email fr.inspection@nara.gov, or go to: www.archives.gov/federal-register/cfr/ibr-locations.html.

Issued on August 1, 2023.

Victor Wicklund, Deputy Director,
Compliance & Airworthiness Division,
Aircraft Certification Service.

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